Aluminum Electrolytic Capacitors

RND components

Features

- Miniature product, 105℃
- Applicable to small electronic devices
- Height: 7 mm
- RoHS Compliance

Specifications

Items	Characteristics						
Capacitance Tolerance	± 20%(120Hz,20℃)						
Operating Temperature Range	-40 ~ +105℃						
Rated Voltage Range	6.3 ~ 50VDC						
Leakage Current	I ≦ 0.01CV or 3 (μA) which is greater.(After 2 minutes application of DC rated voltage, at 20 ℃)						
Dissipation Factor (tan δ)	Measurement Frequency: 120Hz. Temperature: 20℃						
	Rated Voltage(V)	6.3	10	16	25	35	50
	tan δ(Max)	0.24	0.20	0.16	0.15	0.12	0.10
Low Temperature Stability Impedance Ratio(Max)	Measurement Frequency: 120Hz.						
	Rated Voltage(V)	6.3	10	16	25	35	50
	Z(-25℃)/Z(20℃)	3	2	2	2	2	2
	Z(-40℃)/Z(20℃)	6	5	4	3	3	3
Load Life	1000hours,with application of rated voltage at 105℃						
	Capacitance Change	Within ± 20% of Initial Value					
	tan δ	200% or less of Initial Specified Value					
	Leakage Current	Initial Specified Value or less					
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1,000 hours 105℃ without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to them 4.1 of JIS C5101-4.						
	Capacitance Change	Within ± 20% of Initial Value					
	tan δ	200% or less of Initial Specified Value					
	Leakage Current	Initial Specified Value or less					
Standards	JIS C 5101-4 (IEC 60384)						

Frequency Coefficient of Permissible Ripple Current

Capacitance (μF)	Frequency (Hz)			
	50	120	1K	≧10K
＜100	0.80	1.00	1.30	1.50
≧100	0.80	1.00	1.15	1.20

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5℃ rise. When long life performance is required in actual use , the rms ripple current has to be reduced.

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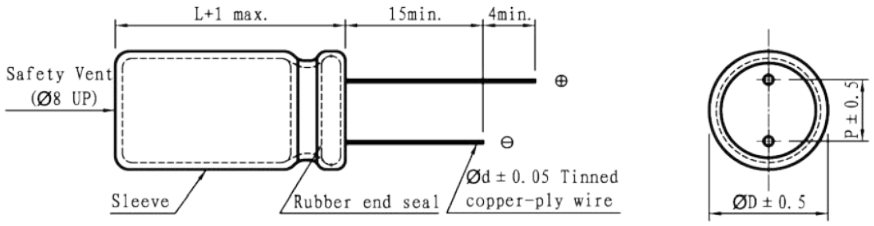
Dimensions(mm)



φD	4	5	6.3	8
P	1.5	2.0	2.5	3.5
φd	0.45	0.5	0.5	0.5

Standard Ratings

D×L(mm) ; R.C.(mA rms) at 105℃ 120Hz.

Cap (μF)	V (Code)	6.3 (0J)		10 (1A)		16 (1C)	
	Item	D x L	R.C.	D x L	R.C.	D x L	R.C.
10						4x7	28
22		4x7	34	4x7	37	4x7	44
33		4x7	42	4x7	45	4x7	52
47		4x7	50	5x7	60	5x7	69
100		5x7	75	6.3x7	86	6.3x7	95
220		6.3x7	95	8x7	145	8x7	150
330		8x7	160				

Cap (μF)	V (Code)	25 (1E)		35 (1V)		50 (1H)	
	Item	D x L	R.C.	D x L	R.C.	D x L	R.C.
0.1						4x7	1.0
0.22						4x7	2.3
0.33						4x7	3.5
0.47						4x7	5.0
1						4x7	10
2.2						4x7	18
3.3				4x7	18	4x7	24
4.7		4x7	22	4x7	22	4x7	28
10		4x7	29	5x7	33	5x7	42
22		5x7	35	6.3x7	55	6.3x7	60
33		5x7	62	6.3x7	65	8x7	68
47		8x7	75	8x7	80	8x7	95
100		8x7	95				
150		8x7	105				
180		8x7	120				